A&B SBR no=24/17-18 pl. bring up for inspection on 16/11/17 dl=30-11-17

BR no=24/17-18 dt=30-11-17

Original/Duplicate/Triplicate

No.1ST & final Bill

CONTRACT CERTIFICATE

(For Other Works)

Date.....2010

Division: **Electricals (Yelahanka)** Sub-Division: **Electricals**

Bill Received No. Dated Divisional / Sub Divisional Cash Book Voucher No..... Dated.....

Schedule Docket No. Head of Account : **P - 0298** **Job Code :-001-17-000045**

D.R.No.

Name of Work :- Repairs to existing Park Lighting, Burial grounds and Metering to the existing Installation in Park at Yelahanka Constituency.

Name of Contractor and Full Address:**M/S Sri Lakshmi Varadaraja Electrical Stores.**

Reference to Agreement No:EE/Ele/YZ/WO/ 30 /17-18

Certified that the measurements were taken by me on 13/11/17 and recorded of Pages 311560 to 566 of measurement Book No. 3116/17-18 and that the work is satisfactorily executed.

Sri Lakshmi Varadaraja Electrical Stores Proprietor

Contractor

Officer-in-charge of work

Certified that the measurement were taken by me on 14/11/17 and found correct. The work is satisfactorily executed.

Certified that the quantities of materials shown in column 3 of Account have been actually brought to site of the work and the contractor has not previously received any advance on this security. These materials are of and imperishable nature and are all required for immediate use on the work in connection with items for finished work have been agreed upon. A normal agreement signed and executed by the contractor is recorded in the office.

Assistant Executive Engineer (Ele) BBMP, Bangalore

Sub-Division Officer

II Memorandum of Payment

1) Total value of work done or supplies made as per account within	Bill	221759=00
2) Deduct amount to be held in reserve being .....percent Rs.....	IT 1%	2218=00
3) " Balance	S&ST 1%	2218=00
4) Deduct Payment:	CGST 1%	2218=00
a) Amount of previous payment as in the Office Cash Book Voucher No.....Dated.....S.D. No..... Amount adjusted towards cash advance recovery of	LWC 1%	2218=00
	CBFO 1%	222=00
b) Payments Now made } cost store or other material supplied. recovery of amount creditable to this/other work. Amount paid on this bill Cheque / Cash.	deductions	9094=00
	Cheque	212665=00
5) Balance being unpaid value of work done held in reserve.		
6) Deduct cash advance made on the Office cash Book Voucher No..... dated.....less adjustments.		
7) Net amount due to or from Contractor unadjustments items.		
8) Advance to Contractor for materials brought to site (as detailed) within.		
9) Value of Government materials supplied.		
Total amount adjusted -		

Sri Lakshmi Varadaraja Electrical Stores Proprietor

Received Rs..... (in words).....

.....

by cash and by adjustment of Payment as per memorandum

(in final settlement of all demands)

Contractor's Signature

Witness

1.

2.

Dated Signature of Contractor

Paid by me by Cheque No.....Dated.....

Cash Rs.....

Dated.....

Initials of Officer making payment

Sri Lakshmi Varadaraja Electrical Stores Proprietor Stamp

(For use in the Office)

ಲೆಕ್ಕಶೀರ್ಷಿಕೆ P0298 ಗಾಗಿ R to ele...

ರೂ: 221759=00 ರಿಬೇಟ್ ಮಾಡಿ ಸ್ವೀಕರಿಸಿದೆ

ರೂ: 212665=00 ಚೆಕ್ ನೀಡಿರುವುದಾಗಿದೆ

ರೂ: 9094=00 ಮುಂಗಡವಾಗಿ ಮಾಡಿದೆ

Executive Engineer

ಲೆಕ್ಕ ಅಧೀಕ್ಷಕರು

ಕಾ.ಪಾ.ಅ.(ವಿ) ಯಲಹಂಕ ವಲಯ

Sl. No	Description of Item	Unit
	Name Of Work:- Repairs to existing Park Lighting, Burial grounds and Metering to the existing Installation in Park at Yelahanka Constituency.	
1	LED Street light. Supply of LED Streetlight with pressure die cast aluminum housing body with optimal heat sink for better thermal dissipation. Diffuser with Injection moulded & is made of polycarbonate material with high transmission index, delivering superior light output. Rated life Burning Hrs. 50000 hr. @ Lumen Maintenance of 70%. CCT > 5500K, IP 66 optical and electrical compartment & impact resistance of complete luminaire > IK08. Power Factor >0.9 with mains Current should not be greater than 0.1A to 0.7A & Surge Protection- Min 4 KV along with Over voltage/Overload, short circuit/ miswiring protection. Compatible for pole mounting with outer dia of 40mm to 50mm. Universal Voltage driver to operate wide voltage range from 100V to 270V 50/60Hz application. Over load & Short circuit protection ensures reliable operation in spite of problem in output side. Compliance to IS 10322/IEC 60598, LM 79 & LM 80 Adherence with RoHS. UL approved MCPCB. Top access street light with single screw to ensure ease of maintenance at the sight site location with minimized minimal tools.	
	LED Light fixture with .....W System Power consumption. LED Efficiency>130lm/w at 1W & Fixture Efficiency >80lm/w with nominal CRI 75+. housing with supplier word mark / name shall be engraved / Embossing on the die cast housing / body part. . Luminaire manufacturer should have in-house facility accredited by NABL/CPRI & any Government certified agency & Design & Development facility certified by ISO 9001:2008. Warranty of 5 Years against any manufacturing defect working under standard electrical conditions as mentioned above should be given by LED source manufacturer. Suitable for A1/A2 Roads as per IS 1944 Part I & Part II.LED Streetlight 24 watts	Nos
2	Supplying of 1.1 KV LT UG cable having aluminum conductor PVC insulated, extruded inner sheathed, galvanized, steel strip (except 2CX10Sq.mm wire armoured) confirming to IS-3975:1990 (No. of Strip indicated in GTP) & extruded PVC outer sheathed armoured cable with specified IS-1554 Part-1:1988 & confirming to GTP of GROUP-A. 4core 16 sqmm	Mtrs
3	3.5 core 25 sqmm	Mtrs
4	Digging of trench of 0.6m deep x 0.50 mtr wide refilling the trench to the required ground level and consolidating etc., complete.(As per Civil SR KSRB I-2, P-7)In soil (ordinary)	Mtrs
5	Labour charges for laying of 1.1 KV class UG cable in existing trench GI pipe / stoneware pipe / on wall / on pole as required.In existing trench/duct.6 sqmm to 16 sqmm	Mtrs
6	Supplying and fixing electro mechanical timer (without contactor) using necessary bolts, nuts and waqshers etc.. Group A, PWD Elec SR 2006-07.	Nos
7	Wiring for lighting/power circuit using one of FRLS PVC insulated 1100V grade, multistrand Copper conductor single core wire in open or concealed system of wiring as per IS-694:1990 & confirming to GTP of GROUP -B. 1)1 sqmm.	Mtrs
8	Supplying and fixing angle iron frame work fabricated out of M.S. angle iron.. and M.S. flat ... with bolts, washers etc., and painted with 2 coats of red oxide and then two coats of approved paint.40x40x6mm	Mtrs
9	Supplying & fixing of Porcelain fuse channel with cut out on existing wooden/panel using necessary nuts, bolts and washers.63Amps	Nos
10	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve, indicator ON/OFF, energy cross-3 with Short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898.f)5-32 Amps DP	Nos

Previous Measurement		Present Measurement			Total Upto Date		Remarks
Qty	Cost	Qty	Rate	Amount	Qty	Cost	
		13	5000.00	65000.00	13	65000.00	
		262	90.00	23580.00	262	23580.00	
		65	100.00	6500.00	65	6500.00	
		280	80.00	22400.00	280	22400.00	
		327	10.00	3270.00	327	3270.00	
		6	2494.00	14964.00	6	14964.00	
		123	20.00	2460.00	123	2460.00	
		20	150.00	3000.00	20	3000.00	
		18	136.00	2448.00	18	2448.00	
		8	900.00	7200.00	8	7200.00	

11	Fabricating supplying and mounting MS box made out ... SWG suitable for floor / wall mounting, fully weather proof with provision for better heat dissipation, provided with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clamps with necessary cable entry pipe with gland and box should be finished with 2 coats of red oxide primer paint and finally finished with approved colour enameled metal paint etc., complete.16SWG	Sqcms
12	Supply and fixing of 4-pole power contactor with NO/NC contacts on existing wood / panel board using necessary bolts, nuts, washers and wiring etc., complete. d) 60-70Amps	Nos
13	Wiring for lighting/power circuit using one of PVC insulated 1100v grade, multis and Copper conductor single core cable in open or consealed system of wiring.I Group A Materials.g)16 sqmm	Mtrs
14	Supplying and fixing phylum brand hand plastic sheet 3mm thick with necessary niches for fixing switches, regulators etc., and fixing on exisiting wood or metal box using N.F.screws	Sqcms
15	Transporting and erecting of 3.5 Mtrs long Swged Tubelor park poles including Digging of pit 45x45x100cms & providing 1:2:4 concrete of size 35x35x130 cms Including coping as per the detaild enclosed civil estimate & drawimg	Nos
16	Painting of existing street light pole after scrapping the old paint and painted with suitable colour enamel/Silver paint including coping/footing of the pole.	Nos
	Total Rs	

Certificate: 1. Certefied that the Above Work has been carreid out satisfactorily

Assistant Executive Engineer
BBMP, Bangalore

Sri Lakshmi Varadaraja
Electrical Stores

Proprietor

		89750	0.27	24232.50	89750	24232.50	
		6	3500	21000.00	6	21000.00	
		39	55.00	2145.00	39	2145.00	
		24300	0.20	4860.00	24300	4860.00	
		17	800.00	13600.00	17	13600.00	
		17	300.00	5100.00	17	5100.00	
				221759.50		**221759.50**	

Ele